

## CLAIMS

What is claimed is:

1           1.     An inspection apparatus for diagnosis, comprising:  
2                 a micro processing unit for actuating units and modules of the inspection apparatus  
3     via an instruction of a user or a program;  
4                 an input unit for allowing the user to input the instruction or data;  
5                 a conversion module comprising at least a receive unit for receiving sound and a  
6     transceiver unit for emitting and receiving ultrasonic wave energy signals;  
7                 a signal processing module for converting analog signals received by the conversion  
8     module into digital signals;  
9                 a memory unit for allowing high-speed data access for the units and modules of the  
10    inspection apparatus;  
11                a storage unit for storing data processed by the micro processing unit according to  
12    the instruction inputted via the input unit; and  
13                a communicate module controlled by the micro processing unit, for allowing data  
14    communication between the inspection apparatus and at least one data processing device  
15    connected to the inspection apparatus.

1           2.     The inspection apparatus as claimed in claim 1, wherein the input unit is one  
2     selected from the group consisting of a keyboard, touch panel, mouse, and track ball.

1                   3. The inspection apparatus as claimed in claim 1, wherein the conversion module  
2 further comprises an infrared body temperature inspection unit.

1                   4. The inspection apparatus as claimed in claim 1, wherein the conversion module  
2 further comprises a pulse inspection unit.

1                   5. The inspection apparatus as claimed in claim 1, wherein the memory unit is one  
2 selected from the group consisting of a dynamic random access memory (DRAM),  
3 synchronous dynamic random access memory (SDRAM), and double data rate synchronous  
4 dynamic random access memory (DDRSDRAM).

1                   6. The inspection apparatus as claimed in claim 1, wherein the storage unit is one  
2 selected from the group consisting of a hard disk drive (HDD), compact flash (CF) card,  
3 smart media (SM) card, memory stick, secure digital (SD) card, and extreme digital (XD)  
4 card.

1                   7. The inspection apparatus as claimed in claim 1, wherein the communicate module  
2 comprises a wireless transmitting interface.

1                   8. The inspection apparatus as claimed in claim 7, wherein the wireless transmitting  
2 interface is one selected from the group consisting of a radio frequency (RF) transmitting  
3 interface, infrared transmitting interface, and blue tooth transmitting interface.

1           9. The inspection apparatus as claimed in claim 1, further comprising a display unit  
2 controlled by the micro processing unit, for displaying inspection results or processes from  
3 the inspection apparatus.

1           10. The inspection apparatus as claimed in claim 9, wherein the display unit is a  
2 liquid crystal display (LCD) monitor.

3  
4           11. The inspection apparatus as claimed in claim 10, wherein the monitor is a touch  
5 screen.

1           12. The inspection apparatus as claimed in claim 1, wherein the data processing  
2 device comprises a control module connected with the communicate module of the  
3 inspection apparatus via a wired or wireless transmitting interface to control operation of the  
4 inspection apparatus.

5  
6           13. The inspection apparatus as claimed in claim 12, wherein the control module is a  
7 software program or firmware incorporated in the data processing device.

1           14. The inspection apparatus as claimed in claim 12, wherein the data processing  
2 device further comprises a display unit for displaying inspection results from the inspection  
3 apparatus.